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MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

Monthly Activities Report
of the Air Quality Bureau

July, 1979

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1. Highlights:

The Enforcement Section began investigating industries for compliance and to update the emission inventory. These investigations are being done as a team effort.

Several MAPS reports were finalized and printed this month.

A new employee was hired in the Air Monitoring Section. An Input/ Output Controller was hired in the Technical Services Section.

2. Ambient Air Quality Network:'

a. Standards Exceeded:

This information is unavailable because of the vacancy in the Monitoring Section.

b. Air Stagnation Advisories - None in July

c. Laboratory Status

Total Determinations for Month	2360
Total Samples for month	441

3. Permits and Tax Credits:

a. Construction permits, applied for

Markovich Paving, Lewis & Clark Co., Barber Green hot plant
R. J. Studer and Sons, Custer Co., dryer mixer, scrubber
Portable Pavers, Fallon Co., asphalt paving plant
Peter Kiewit & Sons, Big Horn Co., crusher
Peter Kiewit & Sons, Big Horn Co., asphalt plant
Meyer Construction, Powell Co., crusher
Meyer Construction, Dawson Co., crusher
Meyer Construction, Wibaux Co., pugmill operation
Halliburton Services, Glendive, cement handling and blending system
Gus Albert Contractor, Rosebud Co., hot plant
Meyer Construction, Wibaux Co., asphalt plant
Maronick Construction, Meagher Co., crushers
Dept. of Highways, Roosevelt Co., Phillips Co., hot plant

Approved in July:

Robert F. Tindall, Daniels Co., drum mixer
Baltrusch Construction, Choteau, Blaine, Hill Counties, crusher
Francis Tindall, Glacier Co., crushers
Rehbein Contracting, Glacier Co., mixer and crusher

3. Permits and Tax Credits, Cont.

Approved in July

R. J. Studer & Sons, Gallatin, Sweet Grass Counties, crusher
Washington Construction, Big Horn, Mineral, Sweet Grass Counties, crushers
Gus Albert, Dawson Co., batch plant
McIntyre Construction, Pondera Co., gravel crusher
Dugdale Construction, Butte, batch plant
Gus Albert, Daniels, Dawson, Sheridan Counties, crushers

4. Variance Status:

a. Current

ASARCO, Rule 16- 2.14(1)-S1470(2), Sulfur Oxide Emissions applicable to lead-zinc complex, renewed in July for one year. Final compliance due in June, 1980.

The Anaconda Co., variance request from Sulfur Oxide Emissions for renewal, application pending.

Anaconda Aluminum, variance request from fluoride emissions for renewal, application pending.

b. New

George Berg Lumber, Lewistown, Rule 16-2.14-S1490, Open Burning, final compliance due in July, 1980

5. Enforcement Actions:

a. Citation

Great Western Sugar, Billings, 790706-HK-1, Odor rule violation

b. Notice of Violation - None

c. Order for Corrective Actions - None

6. Tepee Burner and Open Burning:

Tepee Burners in operation - 20

Open burning permits issued:

Kalispell Office	32	Sanders County	0
Cascade County	7	Yellowstone County	26
Lake County	3	Rest of State	194
Missoula County	0	Total	262

7. Source Tests Performed:

None in July

8. Field Investigations:

Champion Building Products, Silver City, inspection
Brand S Lumber, Livingston, inspection
Stanco-General, Anaconda, inspection
Rocky Mountain Crushing, Anaconda, inspection
Pioneer Ready Mix, Bozeman, inspection
Egger Construction Service, inspection, Citation issued
Yellowstone Pine, Belgrade, inspection
Burkland Studs, Livingston, inspection
Brand S Lumber, Livingston, inspection

9. Complaints:

Helena Sewage, Helena, odor, referred to Water Quality Bureau
Musselshell County Road, Roundup, dust, investigation
Louisiana Pacific, Columbia Falls, smoke, investigation
Plum Creek Lumber, Columbia Falls, dusty haul roads, investigation
C & C Plywood, Kalispell, smoke, investigation
Paxson Drive, Butte, dust
Exxon, Billings, odor, investigation (2 complaints)
Great Western Sugar, Billings, odor, Citation issued,(3 complaints)
Waste Water Treatment, Billings, odor, referred to city-county office

10. Data Processing Services:

a. Ambient Data Summary - see attached information for June

b. Emission Inventory Status: No significant activity

c. Prevention of Significant Deterioration - See modeling

d. Modeling

Performed a diffusion modeling analysis of various hypothetical scenarios of industrial development for the redesignation analysis being done by the Fort Peck Indian Reservation.

11. Environmental Impact Statements: None Written or received in July.

12. Status of Studies, Contracts and Reports:

Poplar River Study continues to operate. Second year report due in August.

Flathead Environmental Study continues to operate well. First Year report due in August.

MAPS meteorology studies continuing. First year report and Deer Lodge Valley Dispersion Study have been printed and mailed out. Air Resources Modeling System is due in August.

Montana Ambient Air Quality Studies is progressing. Work is continuing on the final EIS which is due in August.

13. Schools and Training:

Smoke school was held for state, local and industry employees on July 17-18 in Helena. The new smoke generator was used.

14. Public Hearings and Meetings:

a. Public hearings held:

Board of Health meeting was held July 13. A variance request was presented at that meeting.

Data aquisition seminar was held in Helena and training session was held in Bozeman for purpose of maintenance and repair of computers and teletypes.

b. Meetings attended:

Pat Smith, Fort Peck Reservation monitoring, Helena
Wilderness Advisory Committee, Helena, PSD
DESPUR, Helena, regarding study on fugitive dust
Legal Division, Helena, regarding variance hearing
Smoke Management meeting, Missoula
Lewis and Clark County Attorney, Helena, Lincoln Landfill

c. Intra-staff meetings

AQB staff meetings
Enforcement section meeting
Section head meeting

15. Information Requests:

Received new Clean Air Acts which will be distributed.
Many copies of the new rules were distributed and approximately 25 requests were received via mail for these. They are also being disseminated by the Inspection team visiting industry.

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

June 1979

Pollutant: Total Suspended Particulate Units: microgram/m^3

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mons. of Data	Comments
140	Morton-Decker Big Horn Co.	112	112	112	37	6	
	Warren Ranch Big Horn Co.	40	52	110	21	6	
	KOHL Billings	65	69	155	42	6	
	City Hall Billings	94	288	288	84	6	
	Grand Ave. Sch. Billings	78	302	302	76	6	
	Central Park Billings	238	246	246	71	6	3 exc Fed Sec Std
	Laurel Jr. High Laurel	77	81	111	42	6	
141	Hospital Roof Great Falls	109	145	145	51.6	6	
	Fire Sta. #1 Great Falls	110	189	189	89	6	
	Kiwanis Park Great Falls	75	111	111	42	6	
142	Hi-Way Jct. Anaconda	53	59	155	46		
	Lincoln School Anaconda	72	303	303	49	6	
	Floral Park Butte	85	112	112	57	6	
	McKinley Res. Granite Co.	88	97	142	48	6	
	Dr. Canty Res. Granite Co.	118	181	181	70	6	

Pollutant: Total Suspended Particulate Units: microgram/m^3

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mons. of Data	Comments
142	Greeley School Butte	121	196	196	91	6	
	Hebgen Park Butte	169	225	225	78	6	1 exc Fed Sec Std
	Tierney Res. Silver Bow Co.	62	80	81	38.5	6	
	Microwave Jefferson Co.			*			
	212 E. Pacific East Helena	107	170	201	79	6	
	Cogswell Bldg. Helena			*			
143	Lame Deer Rosebud Co.	56	56	56	10.5	6	
	Fort Peck McCone Co.	65	65	65	18	6	
	BN Site Colstrip	67	82	138	27	6	
	McRae Site Colstrip	69	69	69	19	6	
	Border Site Scobey			*			
144	Anders Res. Col. Falls	261	375	375	142	6	1 exc Fed Pri Std
	Trailer NAAC Col. Falls	35	63	63	26.5	6	4 exc Fed Sec Std
	Ronan Lake Co.	311	311	311	102	6	3 exc Fed Sec Std 1 exc Fed Pri Std

Pollutant: Total Suspended Particulate Units: microgram/m^3

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mons. of Data	Comments
144	Polson Lake Co.	169	169	169	64	5	2 exc Fed Sec Std
	Libby-Brown Lincoln Co.	450	610	1384	242	6	2 exc Fed Pri Std 5 exc Fed Sec Std
	Kalispell-Strom Flathead Co.	76	343	343	92	6	
	Courthouse Roof Missoula	178.3	265	265	93.9	6	2 exc Fed Sec Std
	Lion's Park Missoula	121.6	419	419	102.2	6	
	Rose Park Missoula	109.5	317.3	317.3	88.6	6	
	Hoerner Wald. #1 Missoula Co.	107	118	118	42.3	6	
	Hoerner Wald. #2 Missoula Co.	116	158	201	44.0	6	
	Hoerner Wald. #3 Missoula Co.			****			
	Kalispell Airport Flathead Co.	69	120	120	56.5	5	

**** - Site no longer operational.

Pollutant: Respirable Particulate - Sampler (Dichotomous) Units: micrograms/m^3

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mons. of Data	Comments
140	Central Park Billings						
	coarse			*			
	fine						
141	Kiwanis Park Great Falls						
	coarse			**			
	fine						
	Lincoln School Anaconda						
	coarse	43.3	43.3	75.7	5.6	5	
	fine	8.0	41.1	41.9	22.5	5	
	Hebgen Park Butte						
	coarse			*			
	fine						
	Floral Park F.S. Butte						
	coarse			*			
	fine						
143	Border Site Scobey						
	coarse			*			
	fine						
144	Lion's Park Missoula						
	coarse			*			
	fine						
	Kalispell Airport Flathead Co.						
	coarse			*			
	fine						

** - Insufficiet data available for month.

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MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA Page 2 of 2

June 1979

Pollutant: Miscellaneous Continuous Data Units: ppm

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Carbon Monoxide						
142	Alpine West Butte	2.0	16.0	16.0	1.10	6	
	Lincoln School Anaconda	2.5					
144	Lion's Park Missoula			*			
	Hydrocarbons						
142	Hebgen Park Butte			*			
	Lincoln School Anaconda			*			
144	Lion's Park Missoula			*			
	Ozone						
140	Central Park Billings	0.105	0.105	0.110	0.025	6	
142	Lincoln School Anaconda	0.060	0.062	0.062	0.037	6	
	Hebgen Park Butte	0.061	0.068	0.077	0.040	6	
144	Lion's Park Missoula			*			

* - Data unavailable at time of report.

Pollutant: Units:

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Nitrogen Ofoxide						
140	Central Park Billings						
142	Lincoln School Anaconda	0.020	0.035	0.035	0.004	6	
	Hebgen Park Butte						
144	Lion's Park Missoula			*			
	Sulfur Dioxide						
140	Central Park Billings	0.040	0.225	0.225	0.011	6	
	Lockwood School Billings	0.175	0.350	0.350	0.010	6	
	Laurel Farm Laurel	0.180	0.74	0.74	0.042	6	
142	East Stack East Helena			***			
	Microwave East Helena			***			
	Broudy Ranch East Helena			***			
	HiWay Jct. Anaconda	1.87	2.30	2.75	0.027	6	
	Mill Creek Anaconda	1.23	1.62	1.62	0.038	6	
	Lincoln School Anaconda	0.61	1.03	1.03	0.027	6	
	Hebgen Park Butte						

*** - Site Temporarily shut down.

Pollutant: Miscellaneous Indicators Units

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Dustfall - tons/sq mile						
141	Mountain States Great Falls	26.59	26.59	26.59	18.68	6	
	Fire Sta. #1 Great Falls	20.27	37.20	37.20	15.95	6	
	Sulfation Rate - mg O_2/100 sq cm						
140	3/8 mile NE Coop Billings	0.46	1.09	1.09	0.25	6	
	E. of Laurel Billings	0.79	1.43	1.43	0.89	6	
141	Stock Car Truck Great Falls	0.309					
	Phillips Ref. N1 Great Falls	0.590	0.617	0.617	0.360	5	
	Phillips Ref E Great Falls	1.200	1.200	1.200	0.483	6	
142	Microwave East Helena	0.12	0.56	0.56	0.23	6	
	212 E. Pacific East Helena	0.15	0.37	0.37	0.22	6	
	East Stack Sta. East Helena	0.12	0.47	0.47	0.27	6	
	Broudy Ranch East Helena	0.05	0.27	0.27	0.11	6	
	2580 Prickly Pear East Helena	0.09	0.31	0.31	0.16	6	

Pollutant: Miscellaneous Indicators Units:

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Fluoride Papers - mg/sq cm/30 days						
144	Oehlbom's MT Box Flathead Co.	0.61	1.07	1.07	0.74	6	
	Anaconda South Flathead Co.	3.18	11.42	11.42	5.46	6	
	Glacier Park #1 Glac. Nat. Park	0.33	0.69	0.69	0.41	6	
	Glacier Park #2 Glac. Nat. Park			**			
	Glacier Park #9 Glac. Nat. Park	0.21	0.36	0.36	0.29	6	
	Fluoride Plates - mg/sq cm/30 days						
144	Anaconda South Flathead Co.	7.08	26.22	26.22	9.02	6	
	Trailer-NAAC Flathead Co.	1.03	1.73	1.73	1.21	6	
	Glacier Park #1 Glac. Nat. Park	0.44	0.86	0.86	0.40	6	
	Glacier Park #2 Glac. Nat. Park			**			
	Glacier Park #9 Glac. Nat. Park	0.27	0.27	0.27	0.22	6	
	SO2 Bubbler - ppm						
143	Border Site Scobey	0.0	0.0	0.0	0.0	6	
	NO2 Bubbler - ppm						
143	Border Site Scobey	0.0	0.01	0.01	0.0	6	

** - No valid sample submitted.

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